



RADIO PERFORMANCE TEST REPORT

| Test Report No. | : OT-223-RWD-025 |
|----------------------|--|
| Reception No. | : 2202000646 |
| Applicant | : Continental Automotive Systems Corporation |
| Address | : 45-29, Saeum-ro, Icheon-City, Gyeonggi-Do, Korea |
| Manufacturer | : Continental Automotive Systems Corporation |
| Address | : 45-29, Saeum-ro, Icheon-City, Gyeonggi-Do, Korea |
| Type of Equipment | : Remote Keyless Entry System(Transmitter) |
| FCC ID | : SY5IGRGE03 |
| Model No. | : SVI-IGRGE03 |
| Serial number | : N/A |
| Total page of Report | : 23 pages (including this page) |
| Date of Incoming | : February 28, 2022 |
| Date of issuing | : March 16, 2022 |

SUMMARY

The equipment complies with the regulation; *FCC PART 15 SUBPART C Section 15.209 and Section 15.231* This test report only contains the result of a single test of the sample supplied for the examination. It is not a generally valid assessment of the features of the respective products of the mass-production.

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Tested by / Su-Min You / Assistant Manager ONETECH Corp.

Reviewed by Tae-Ho, Kim / General Manager ONETECH Corp.

Approved by Ki-Hong, Nam / General Manager ONETECH Corp.

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OTC-TRF-RF-001(0)



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Revision History

| Rev. No. | Issue Report No. | Issued Date | Revisions | Section Affected |
|----------|------------------|----------------|--|------------------|
| 0 | OT-223-RWD-025 | March 16, 2022 | Initial Issue (C2PC due to the added optional X-tal) | All |
| | | | | |
| | | | | |

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OTC-TRF-RF-001(0)

1. VERIFICATION OF COMPLIANCE

| Applicant | : Continental Automotive Systems Corporation |
|----------------|--|
| Address | : 45-29, Saeum-ro, Icheon-City, Gyeonggi-Do, Korea |
| Contact Person | : S. M. Jang / Representative |
| Telephone No. | : 82-31-645-4864 |
| FCC ID | : SY5IGRGE03 |
| Model Name | : SVI-IGRGE03 |
| Brand Name | : N/A |
| Serial Number | : N/A |
| Date | : March 16, 2022 |

| EQUIPMENT CLASS | DSC - Part 15, Security/Remote Control Transmitter |
|---|---|
| E.U.T. DESCRIPTION | Remote Keyless Entry System(Transmitter) |
| THIS REPORT CONCERNS | Class II Permissive Change (C2PC) |
| MEASUREMENT PROCEDURES | ANSI C63.10: 2020 |
| TYPE OF EQUIPMENT TESTED | Pre-Production |
| KIND OF EQUIPMENT AUTHORIZATION REQUESTED | Certification |
| EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S) | FCC PART 15 SUBPART C Section 15.209 and Section 15.231 |
| MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE | None |
| FINAL TEST WAS CONDUCTED ON | 3 m, Semi Anechoic Chamber |

The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

-. This Report is Class II Permissive Change (C2PC) Report due to the added X-tal. This is purpose to use both of original and new X-tal optionally, For more detail test result of original X-tal, Please refer to the report No. KR18-SRF0083-C.



2. TEST SUMMARY

2.1 Test items and results

| SECTION | TEST ITEMS | RESULTS | | |
|------------------------|---|----------------------|--|--|
| 15.231(c) | Bandwidth Measurement | Met the Limit / PASS | | |
| 15.231(a) | Transmission Time | Met the Limit / PASS | | |
| 15.231(b) 15.209(a) | Field Strength of Fundamental and Spurious Emission | Met the Limit / PASS | | |
| 15.205 | Restricted Band | Met the Limit / PASS | | |
| 15.207 | AC Conducted Emissions | N / A (See Note) | | |

Note: This test is not applicable because the EUT uses battery and it's not to be connected to the public utility (AC) power line.

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in section 2.1.

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2020. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si,

Gyeonggi-do, 12735, Korea

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-4112/ C-14617/ G-10666 / T-1842

-. Lab Accreditation:

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

ISED (Innovation, Science and Economic Development Canada) - Registration No. Site# 3736A-3

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) - Designation No. KR0013



3. GENERAL INFORMATION

3.1 Product Description

The Continental Automotive Systems Corporation, Model: SVI-IGRGE03 (referred to as the EUT in this report) is a Transmitter that it controls locking and unlocking the door of a vehicle. Product specification information described herein was obtained from product data sheet or user's manual.

| CHASSIS TYPE | Plastic |
|--|---------------------------------|
| TX FREQUENCY | 433.92 MHz |
| MODULATION | FSK |
| LIST OF EACH OSC. OR CRY. FREQ.(FREQ.>= 1 MHz) | 13.08 MHz |
| DUTY CYCLE FACTOR | 12.83 dB (Duty Cycle : 22.83 %) |
| ANTENNA TYPE | Built-in on the PCB in EUT |
| ANTEENA GAIN | -24.14 dBi |
| RATED SUPPLY VOLTAGE | DC 3 V from a battery |

3.2 Alternative type(s)/model(s); also covered by this test report.

-. None



4. EUT MODIFICATIONS

-. None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

| DEVICE TYPE | MANUFACTURER | MODEL/PART NUMBER | FCC ID |
|-------------|--------------|-------------------|--------|
| MAIN BOARD | N/A | N/A | - |

5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

| Model | Manufacturer | Description | Connected to | | |
|-------|--------------|-------------|--------------|--|--|
| - | - | - | - | | |
| - | - | - | - | | |

5.3 Mode of operation during the test

Software was programmed into the EUT to maintain continuous transfer mode. The EUT was set at 433.92 MHz. To get a maximum radiated emission levels from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes and the worst case is "XY" axis. So, the worst data was recorded in this test report.



-. Duty Cycle

| Frequency | Tx On Time | Tx Off Time | Duty Cycle | Duty Cycle Factor |
|-----------|------------|-------------|------------|-------------------|
| (MHz) | [ms] | [ms] | [%] | [dB] |
| 433.92 | 22.6 | 76.4 | 22.83 | 12.83 |

Note - Duty Cycle : (Tx On Time / (Tx On Time + Tx Off Time)) * 100

Duty Cycle Factor : 20 * Log(1 / (Duty Cycle / 100))

-. Test Plot

| Att | evel | -10.00 | | B 👄 RBW 28 MHz Is 👄 VBW 28 MHz | | | | |
|----------------------|---------------|---------------|--|---------------------------------------|----------|--------------|--|------------------|
| TRG: VI | 'n | 10 | JUB 🖷 3141 200 m | IS 🖷 YBW 28 MH2 | | | | |
| ● 1Pk Vi | | | | | | | | |
| UTK T | | | | | D3[1] | | | -0.11 dB |
| | | | | | 00[1] | | | 99.000 ms |
| -20 dBm | י+-י | | | | M1[1] | | | -36.00 dBm |
| -30 dBm | | | | | 1 | | â | 0.000000 s |
| 1 ^{-30 UBH} | D | 2 | | D3 | | | | |
| -40 dBm | 1 | 7 | | 1 | | | | |
| | | RG -45. | 000 dBm | | | | | _ |
| -50 dBm | n | | | | | | | |
| | | | dample une marker to prove all some | 1 | | 1000 | لسيتلأ وأسف للأعار ومعتقا ومربط ومساولا والمستر | |
| -60 dBn | י | WH PULLER HAR | hand the addition of the second second | where the product of the second state | | lightly blog | and the second | Nalistan Marchil |
| 70 10 | | | | | | | | |
| -70 dBm | | | | | | | | |
| -80 dBm | | | | | | | | |
| | en. | | | | | | | |
| -90 dBn |)— — — | | | | | | | |
| | | | | | | | | |
| -100 dB | m | | | | | | | + |
| | | | | | | | | |
| CF 433 | .92 N | 1Hz | | 1001 pt | s | ~ | | 20.0 ms/ |
| Marker | | | | | | ~ | | |
| Туре | Ref | | X-value | Y-value | Function | | Function Resu | lt |
| M1 | 644 | 1 | 0.0 s | -36.00 dBm | | _ | | |
| D2 D3 | M1 M1 | | 22.6 ms 99.0 ms | -0.02 dB -0.11 dB | 1 72 | | | |
| 03 | INIT | 1 | 99.0 IIIS | 0.11 UB | | | | |

The average field strength may be found by measuring the peak pulse amplitude (in log equivalent units) and determining the duty cycle correction factor (in dB) associated with the pulse modulation as shown in Equation. (ANSI C63.10: 2020)



5.4 Configuration of Test System

Radiated Emission Test:Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10:
2020 to determine the worse operating conditions. Final radiated emission tests were
conducted at 3 m Semi Anechoic Chamber
The turntable was rotated through 360 degrees and the EUT was tested by positioned three
orthogonal planes to obtain the highest reading on the field strength meter. Once
maximum reading was determined, the search antenna was raised and lowered in both
vertical and horizontal polarization.

5.5 Antenna Requirement

For intentional device, according to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Construction:

The transmitter antenna of the EUT is PCB Antenna, so no consideration of replacement by the user.



6. PRELIMINARY TEST

6.1 AC Power line Conducted Emissions Tests

- It is not need to test this requirement, because the power of the EUT is supplied from a DC battery.

6.2 General Radiated Emissions Tests

During Preliminary Test, the following operating mode was investigated.

| Operation Mode | The Worse operating condition (Please check one only) |
|-------------------|---|
| Transmitting Mode | Х |



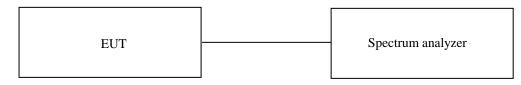
7. Bandwidth Measurement

7.1 Operating environment

| Temperature | : 21 °C |
|-------------------|-------------|
| Relative humidity | : 52 % R.H. |

7.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 10 kHz, and peak detection was used. The bandwidth of fundamental frequency was measured and recorded.



7.3 Test date

February 28, 2022

7.4 Test data

-. Test Result

| Frequency | 20 dB Bandwidth | 99 % Bandwidth | Limit |
|-----------|-----------------|----------------|-------|
| (MHz) | (MHz) | (MHz) | (MHz) |
| 433.92 | 0.069 | 0.069 | 1.085 |

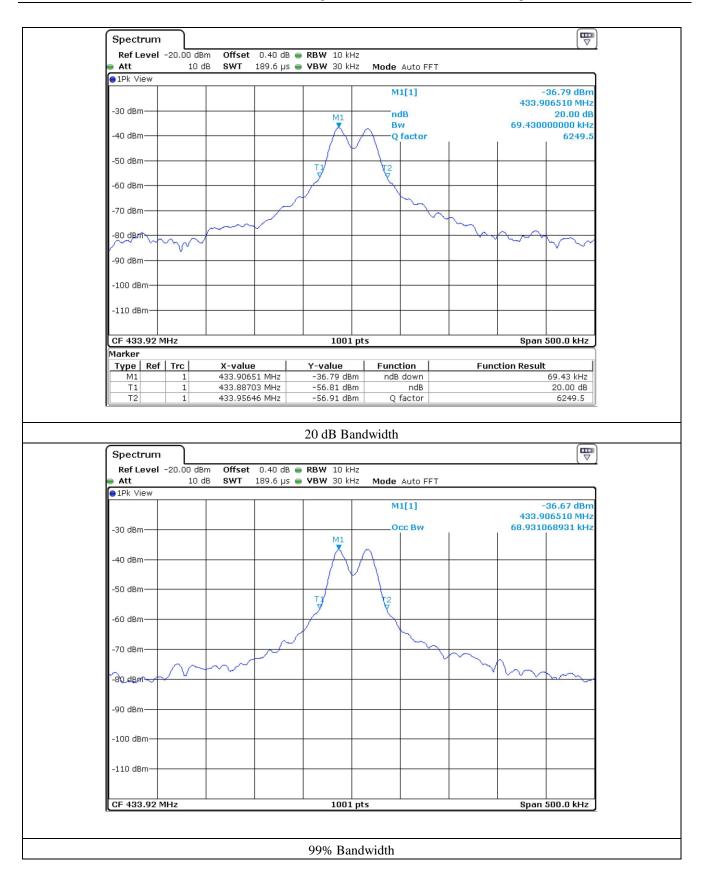
Remark: See next page for measurement data.

: Pass



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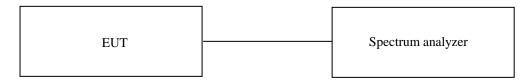
8. Transmission Time

8.1 Operating environment

| Temperature | : 21 °C |
|-------------------|-------------|
| Relative humidity | : 52 % R.H. |

8.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The bandwidth of fundamental frequency was measured and recorded.



8.3 Test date

February 28, 2022



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8.4 Test data

-. Test Result

-. Test Applies : 15.231 (a) (1)

: Pass

| Frequency (MHz) | Transmission | Time (s) | Liı | mit (s) | Result | | | | |
|--|---|----------------------------|---|----------------------------|--|--|--|------|--|
| 433.92 | 0.318 | | 5 | 5.000 | Pass | | | Pass | |
| Spectrum Ref Level -10.00 d Att 10 TRG:VID | Bm <mark>⊜ RBW</mark> dB ⊜ SWT 6 s ⊜ VBW | | | | | | | | |
| ● 1Pk Clrw 1 20 dBm 1 0 02 1 0 0 1 | | | D2[1] —M1[1] | | -0.39 dB 318.00 ms -23.62 dBm 0.00000 s | | | | |
| -20 dBm -40 dBm -20 dBm | 00 dBm | | | | | | | | |
| -60 d8m | | | | | | | | | |
| -80 dBm 40 w Www.www.www.www. -90 dBm | ingenericanalmenterspectforthe moderate | alpupateritioned the trans | urunan darakarakarakarakarakarakarakarakarakara | winntundhamseigtrichaldian | wedtralatevicithy | | | | |
| -100 dBm | | | | | | | | | |
| CF 433.92 MHz | | 1001 pts | | 1 | 600.0 ms/ | | | | |



9. Radiated Emission Test

9.1 Regulation

According to \$15.209(a), for an intentional device, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency [MHz] | Field strength [µ V/m] | Field strength [dBµ V/m] | Measurement distance [m] | | |
|-----------------|---------------------------|-----------------------------|-----------------------------|--|--|
| 0.009 ~ 0.490 | 2 400 / F (kHz) | - | 300 | | |
| 0.490 ~ 1.705 | 24 000 / F (kHz) | - | 30 | | |
| 1.705 ~ 30 | 30 | 29.50 | 30 | | |
| 30 ~ 88 | *100 | 40.00 | 3 | | |
| 88 ~ 216 | *150 | 43.52 | 3 | | |
| 216 ~ 960 | *200 | 46.02 | 3 | | |
| Above 960 | 500 | 53.98 | 3 | | |

*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 ~ 72 MHz, 76 ~ 88 MHz, 174 ~ 216 MHz or 470 ~ 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

According to \$15.231(b), for an intentional device, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency [MHz] | Field strength of Fundamental [µ V/m] | Field strength of Spurious Emissions [µ V/m] |
|-----------------|--|---|
| 40.66 ~ 40.70 | 2 250 | 225 |
| 70 ~ 130 | 1 250 | 125 |
| 130 ~ 174 | 1 250 ~ 3 750 ** | 125 ~ 375 ** |
| 174 ~ 260 | 3 750 | 375 |
| 260 ~ 470 | 3 750 ~ 12 500 ** | 375 ~ 1 250 ** |
| Above 470 | 12 500 | 1 250 |

** Linear interpolations



9.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 kHz to 1 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360° , and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

9.3 Test date

February 28, 2022



9.4 Test data

9.4.1 Field Strength of Fundamental

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

| Humidity Level | : <u>52 % R.H.</u> | Temperature: 21 °C |
|-----------------|---|--------------------|
| Limits apply to | : FCC CFG 47, PART 15, SUBPART C, SECTION 15.231(b) | |
| Result | : PASSED | |
| | | |

| EUT | : Remote Keyless Entry System(Transmitter) |
|---------------------|--|
| Operating Condition | : TX mode |
| Distance | : 3 m |

| Frequency | Reading | Detector | Ant. Pol. | Ant. | Cable | Amp | Duty | Total | Limits | Margin |
|-----------|---------|----------|-----------|--------|-------|-------|--------|----------|----------|---------------|
| (MHz) | (dBµV) | Mode | (H/V) | Factor | Loss | Gain | Factor | (dBµV/m) | (dBµV/m) | (dB) |
| | 92.60 | Peak | Н | | | | - | 86.30 | 100.83 | 14.53 |
| 433.92 | - | Average | Н | 22.70 | 4.10 | 33.10 | 12.83 | 73.47 | 80.83 | 7.36 |
| | 92.35 | Peak | v | | | | - | 86.05 | 100.83 | 14.78 |
| | - | Average | V | | | | 12.83 | 73.22 | 80.83 | 7.61 |

Remark : "H": Horizontal, "V": Vertical

 $Total (dB\mu V/m) = Reading (dB\mu V) + Ant Factor (dB) + Cable Loss (dB) - Amp Gain (dB) - Duty Factor (dB)$

Margin (dB) = Limits (dB μ V/m) - Total (dB μ V/m)



9.4.2 Spurious Emission Test & Restricted Band Test

9.4.2.1 Test data for 9 kHz to 30 MHz

-. Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)

-. Frequency range : 9 kHz ~ 30 MHz

-. Measurement distance : 3 m

| Frequency (MHz) | Reading (dBµV) | | Ant. Height (m) | 0 | Ant. Factor (dB/m) | Cable Loss | Emission Level(dBµV/m) | Limits (dBµV/m) | Margin (dB) |
|--|-------------------|--|--------------------|---|-----------------------|---------------|---------------------------|--------------------|----------------|
| All emissions observed were 20 dB below the limit. | | | | | | | | | |

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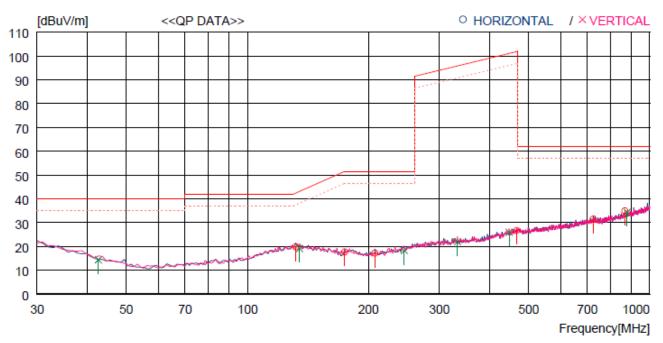
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9.4.2.2 Test data for 30 MHz to 1 000 MHz

-. Resolution bandwidth : 120 kHz

-. Frequency range : 30 MHz ~ 1 000 MHz

-. Measurement distance : 3 m



| No. | FREQ | READING QP F | ANT ACTOR | LOSS | GAIN | RESULT | LIMIT | MARGIN | ANTENNA | TABLE |
|-------------------------------|--|------------------------------|--|--|--|--|---|--|--|------------------------------------|
| | [MHz] | [dBuV] | [dB] | [dB] | [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [DEG] |
| H | orizontal - | | | | | | | | | |
| 1 2 3 4 5 6 | 131.850 174.530 207.510 467.471 723.544 868.070 | 31.6 31.8 32.1 33.5 | 19.4 16.6 15.7 23.4 26.0 27.5 | 2.2 2.5 2.7 4.3 5.3 5.8 | 33.0 33.0 33.1 33.3 32.8 | 19.8 17.7 17.2 26.7 31.5 34.9 | 42.4 51.5 51.5 101.8 61.9 61.9 | 22.6 33.8 34.3 75.1 30.4 27.0 | 300 400 200 300 100 100 | 49 359 2 0 40 358 |
| Ve | ertical | | | | | | | | | |
| 7 8 9 10 11 12 | 42.610 134.760 245.340 332.640 447.101 878.740 | 30.9 31.4 31.7 | 16.2 19.4 17.3 20.0 23.3 27.6 | 1.3 2.2 3.1 3.6 4.2 5.8 | 33.1 33.0 33.0 33.0 33.2 32.7 | 14.4 19.1 18.3 22.0 26.0 34.3 | 40.0 43.1 51.5 95.8 101.1 61.9 | 25.6 24.0 33.2 73.8 75.1 27.6 | 300 200 100 200 200 100 | 190 0 359 0 322 358 |

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9.4.2.3 Test data for above 1 GHz

- -. Resolution bandwidth : 1 MHz for Peak and Average Mode
- -. Video bandwidth : 1 MHz for Peak and Average Mode
- -. Frequency range : 1 GHz ~ 5 GHz
- -. Measurement distance : 3 m
- -.Operating mode : Transmitting mode

| Frequency (GHz) | Reading (dBµV) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | Amp Gain | Duty Factor | Total (dBµV/m) | Limits (dBµV/m) | Margin (dB) |
|----------------------------|-------------------|------------------|--------------------|----------------|---------------|-------------|----------------|-------------------|--------------------|----------------|
| 1 301.76 ^{1), 2)} | 45.52 | Peak | Н | 25.20 | 7.10 | 46.04 | - | 31.78 | 74.00 | 42.22 |
| 1 301.76 ^{1), 2)} | - | Average | Н | | | | 12.83 | 18.95 | 54.00 | 35.05 |
| 1 301.76 ^{1), 2)} | 47.62 | Peak | V | | | | - | 33.88 | 74.00 | 40.12 |
| 1 301.76 ^{1), 2)} | - | Average | V | | | | 12.83 | 21.05 | 54.00 | 32.95 |
| 1 735.68 ¹⁾ | 48.60 | Peak | Н | | | | - | 37.86 | 80.83 | 42.97 |
| 1 735.681) | - | Average | Н | 26.20 | 8.20 | 45.14 | 12.83 | 25.03 | 60.83 | 35.80 |
| 1 735.681) | 45.27 | Peak | V | | | | - | 34.53 | 80.83 | 46.30 |
| 1 735.681) | - | Average | v | | | | 12.83 | 21.70 | 60.83 | 39.13 |
| 2 169.60 ¹⁾ | 51.76 | Peak | Н | 28.20 | 9.20 | 45.79 | - | 43.37 | 80.83 | 37.46 |
| 2 169.601) | - | Average | Н | | | | 12.83 | 30.54 | 60.83 | 30.29 |
| 2 169.601) | 44.43 | Peak | v | | | | - | 36.04 | 80.83 | 44.79 |
| 2 169.60 ¹⁾ | - | Average | v | | | | 12.83 | 23.21 | 60.83 | 37.62 |
| 2 603.521) | 43.51 | Peak | Н | 29.60 | 11.10 | 46.27 | - | 37.94 | 80.83 | 42.89 |
| 2 603.521) | - | Average | Н | | | | 12.83 | 25.11 | 60.83 | 35.72 |
| 2 603.521) | 43.51 | Peak | v | | | | - | 37.94 | 80.83 | 42.89 |
| 2 603.521) | - | Average | V | | | | 12.83 | 25.11 | 60.83 | 35.72 |
| 3 037.441) | 51.71 | Peak | Н | 30.20 | 11.90 | 45.57 | - | 48.24 | 80.83 | 32.59 |
| 3 037.441) | - | Average | Н | | | | 12.83 | 35.41 | 60.83 | 25.42 |
| 3 037.441) | 50.39 | Peak | v | | | | - | 46.92 | 80.83 | 33.91 |
| 3 037.441) | - | Average | V | | | | 12.83 | 34.09 | 60.83 | 26.74 |
| 3 471.36 ¹⁾ | 49.31 | Peak | Н | 30.60 | 12.60 | 45.57 | _ | 46.94 | 80.83 | 33.89 |
| 3 471.36 ¹⁾ | - | Average | Н | | | | 12.83 | 34.11 | 60.83 | 26.72 |
| 3 471.36 ¹⁾ | 46.15 | Peak | V | | | | - | 43.78 | 80.83 | 37.05 |
| 3 471.36 ¹⁾ | - | Average | V | | | | 12.83 | 30.95 | 60.83 | 29.88 |

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| Frequency | Reading | Detector | Ant. Pol. | Ant. | Cable | Amp | Duty | Total | Limits | Margin |
|----------------------------|---------|----------|-------------------------|--------|-------|-------|--------|----------|---------------|---------------|
| (GHz) | (dBµV) | Mode | (H / V) | Factor | Loss | Gain | Factor | (dBµV/m) | $(dB\mu V/m)$ | (dB) |
| 3 905.28 ^{1), 2)} | 51.77 | Peak | Н | 31.70 | 13.60 | 45.03 | - | 52.04 | 74.00 | 21.96 |
| 3 905.281), 2) | - | Average | Н | | | | 12.83 | 39.21 | 54.00 | 14.79 |
| 3 905.281), 2) | 47.97 | Peak | v | | | | - | 48.24 | 74.00 | 25.76 |
| 3 905.28 ^{1), 2)} | - | Average | V | | | | 12.83 | 35.41 | 54.00 | 18.59 |
| 4 339.201), 2) | 45.15 | Peak | Н | 32.80 | 14.40 | 45.10 | - | 47.25 | 74.00 | 26.75 |
| 4 339.201), 2) | - | Average | Н | | | | 12.83 | 34.42 | 54.00 | 19.58 |
| 4 339.20 ^{1), 2)} | 41.69 | Peak | V | | | | - | 43.79 | 74.00 | 30.21 |
| 4 339.201), 2) | - | Average | V | | | | 12.83 | 30.96 | 54.00 | 23.04 |
| 4 773.121), 2) | 48.99 | Peak | Н | 33.50 | 15.10 | 45.03 | - | 52.56 | 74.00 | 21.44 |
| 4 773.12 ^{1), 2)} | - | Average | Н | | | | 12.83 | 39.73 | 54.00 | 14.27 |
| 4 773.121), 2) | 46.23 | Peak | v | | | | - | 49.80 | 74.00 | 24.20 |
| 4 773.121), 2) | - | Average | V | | | | 12.83 | 36.97 | 54.00 | 17.03 |

Remark : "H": Horizontal, "V": Vertical

¹⁾ : Harmonic

²⁾: Restricted band

 $Total (dB\mu V/m) = Reading (dB\mu V) + Ant Factor (dB) + Cable Loss (dB) - Amp Gain (dB) - Duty Factor (dB)$

Margin (dB) = Limits (dB μ V/m) - Total (dB μ V/m)

10. LIST OF TEST EQUIPMENT

| Model Number | Manufacturer | Description | Serial Number | Last Cal. (Interval) | |
|--------------|-----------------------|-----------------------------|-----------------------|----------------------|--|
| FSV40-N | R/S | Spectrum analyzer | 101651 | Apr. 16, 2021 (1Y) | |
| ESR | Rohde & Schwarz | EMI Test Receiver | 101470 | Oct. 18, 2021 (1Y) | |
| HLP-2008 | TDK RF Solutions | TRILOG BROADBAND ANTENNA | 131313 | Feb. 21, 2022 (2Y) | |
| 310N | Sonoma Instrument | Pre-Amplifier | 312544 | Mar. 15, 2022 (1Y) | |
| GP-4303D | LG Precision Co.,Ltd | DC POWER SUPPLY | 5071069 | Jan. 03, 2022 (1Y) | |
| AH-118 | Com-Power | Horn Antenna | 10050061 | Oct. 15, 2021 (1Y) | |
| N/A | PHELCOM.CO | Band Reject Filter | N/A | Jan. 18, 2022 (1Y) | |
| SCU 18 | R/S | SIGNAL CONDITIONING UNIT | 18040081 | Jul. 14, 2021 (1Y) | |
| CO3000 | Innco Systems GmbH | Controller | N/A | N/A | |
| DT5000 | Innco Systems GmbH | Turn Table | N/A | N/A | |
| MA-4000XPET | Innco Systems GmbH | Antenna Master | MA4000/509/37211215/L | N/A | |
| FMZB 1513 | Schwarzbeck | Loop Antenna | 1513-235 | Mar 24, 2020 (2Y) | |